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IN THE CLAIMS

Please amend the claims as follows:

Please cancel claims 27 and 35.

1. (Currently Amended) A compound of Formula (I):

$$L_1-X-L_2$$

(I)

wherein:

 L_1 is a group of formula (a):

$$\begin{array}{c|c}
A & R^1 & R^X \\
R^2 - K'' & O & B
\end{array}$$

(a)

wherein:

A is an aryl or a heteroaryl ring;

B" is -O-;

R^x is alkyl, substituted alkyl, alkenyl, substituted alkynyl, acylamino, aminoacyloxy, aryl, carboxyalkyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substitutes cycloalkenyl, heteroaryl, heteroaralkyl, alkylsulfonyl, or alkylsulfinyl;

R¹ is hydrogen or alkyl;

R² is Het, or is selected from a group consisting of formula (i), (ii), and (iii):

$$R3$$
 (i)
 $R5$
 $R5$
 $R6$
 $R6$
 $R7$
 $R8$
 $R8$
 (iii)
 $R8$

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wherein:

---- is an optional double bond;

n, is an integer of from 1 to 4;

n₂ is an integer of from 1 to 3;

V is -CH-, -O-, -S(O) n_3 - (where n_3 is an integer of from 0 to 2), or -NR⁴- (wherein R⁴ is hydrogen, alkyl, substituted alkyl, aryl, or heteroaryl);

"Het" is a heteroaryl ring which optionally attaches a group of formula (a) to a linker;

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R³ is hydrogen, alkyl, halo, amino, substituted amino, -OR^a (where R^a is hydrogen, alkyl, or acyl), or a covalent bond attaching a group of formula (a) to a linker;

R⁵ is hydrogen, alkyl, halo, amino, substituted amino, -OR^b (where R^b is hydrogen or alkyl), aryl, aralkyl, heteroaralkyl, or a covalent bond attaching a group of formula (a) to a linker;

R⁶, R⁷, and R⁸ are, independently of each other, hydrogen, halo, hydroxy, alkoxy, haloalkoxy, carboxy, alkoxycarbonyl, alkyl optionally substituted with one, two or three substituents selected from halo, hydroxy, carboxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, amino, substituted amino, or a covalent bond attaching a group of formula (a) to a linker;

K is a bond or an alkylene group;

K" is a bond, -C(O)-, $-S(O)_{n4}$ - (where n_4 is an integer of from 0 to 2), or an alkylene group optionally substituted with a hydroxyl group; and

B is heterocycloamino or heteroarylamino, which optionally attaches a group of formula

(a) to a linker;

provided that at least one of the R³, R⁵, R⁶, R⁷, R⁸, "Het", heterocycloamino, or heteroarylamino groups attaches a group of formula (a) to a linker;

X is a linker; and

 L_2 is an organic group comprising at least one primary, secondary or tertiary amine; and X is a linker of formula:

$-X^a-Z-(Y^a-Z)_m-Y^b-Z-X^a-$

wherein

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m is an integer of from 0 to 20;

X^a at each separate occurrence is selected from the group consisting of

-O-, -S-, -NR-, -C(O)-, -C(O)O-, -C(O)NR-, -C(S)-, -C(S)O-, -C(S)NR- or a covalent bond where

R is as defined below;

Z at each separate occurrence is selected from the group consisting of alkylene, substituted alkylene, cycloalkylene, substituted cycloalkylene, alkenylene, substituted alkynylene, substituted alkynylene, cycloalkenylene, substituted cycloalkenylene, arylene, heterocyclene, and a covalent bond; and

Y^a and Y^b at each separate occurrence are selected from the group consisting of -O-,
-C(O)-, -C(O)-, -C(O)O-, -NR-, -S(O)n-, -C(O)NR'-, -NR' C(O)-, -NR' C(O)NR'-, -NR'

C(S)NR'-, -C(=NR')-NR'-, -NR'-C(=NR')-, -OC(O)-NR'-, -NR'-C(O)-O-,-P(O)(OR')-O-, -O
P(O)(OR')-, -S(O), CR'R''-, -S(O), -NR'-, -NR'-S(O), -, -S-S-, and a covalent bond; where n is 0,

1 or 2; and R, R' and R'' at each separate occurrence are selected from the group consisting of

hydrogen, alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, alkenyl, substituted alkenyl,

cycloalkenyl, substituted cycloalkenyl, alkynyl, substituted alkynyl, aryl, heteroaryl and

heterocyclic; provided at least one of X^a, Y^a, Y^b or Z is not a covalent bond;

or a pharmaceutically acceptable salt; or prodrug thereof.

- (Currently Amended) The compound of claim 1 wherein L₂ is a group selected from a
 group consisting of:
 - (i) a group of formula (b):

wherein:

D" is alkylene;

D is -NR³¹R³², -N⁺(R³³R³⁴R³⁵) or -OR³² where R³¹, R³³, and R³⁴ are, independently of each

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other, hydrogen, alkyl, or aralkyl; and R³² and R³⁵ represent a covalent bond attaching a group of formula (b) to a linker;

R²⁷ is hydrogen, halo, nitro, cyano, hydroxy, alkoxy, carboxy, alkoxycarbonyl, acyl, thio, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfonamido, alkylsulfonamido, carbamoyl, thiocarbamoyl, mono or dialkylcarbamoyl, amino, mono- or dialkylamino, aryl, aryloxy, arylthio, heteroaryl, heteraryloxy, heteroarylthio, heterocyclyl, heterocyclyloxy, aralkyl, heteroaralkyl, or alkyl optionally substituted with one, two or three substituents selected from halo, hydroxy, carboxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, amino, or substituted amino;

R²⁸ is hydrogen, halo, nitro, cyano, hydroxy, alkoxy, carboxy, alkoxycarbonyl, acyl, thio, alkylsulfonyl, alkylsulfinyl, sulfonamido, alkylsulfonamido, carbamoyl, thiocarbamoyl, mono or dialkylcarbamoyl, amino, mono- or dialkylamino, or alkyl optionally substituted with one, two, or three substituents selected from halo, hydroxy, carboxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, amino, or substituted amino;

R²⁹ and R³⁰ are, independently of each other, hydrogen, alkyl, haloalkyl, halo, nitro, cyano, hydroxy, alkoxy, alkoxycarbonyl, acyl, thio, alkylthio, amino, mono- or dialkylamino; or one of R²⁷, R²⁸, R²⁹, or R³⁰ together with the adjacent group forms a methylenedioxy or ethylenedioxy group;

(ii) a group of formula (c):

$$R^{36}$$
 R^{37}
 $F - (CHR^{39})n_{12} - F^{*}$
 R^{38}
(c)

wherein:

n₁₁ is an integer of from 1 to 7;

 n_{12} is 0 to 7;

F is -NR⁴⁰-, -O-, -S-, or -CHR⁴¹- (wherein R⁴⁰ and R⁴¹ are, independently of each other, hydrogen, alkyl, or substituted alkyl);

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F" is a covalent bond, -OR⁴³, -NR⁴²R⁴³, or -N⁺R⁴³R⁴⁴R⁴⁵ wherein R⁴² is hydrogen or alkyl. R⁴⁴ and R⁴⁵ are alkyl, and R⁴³ is hydrogen, alkyl, or a covalent bond attaching a group of formula (c) to a linker;

R³⁶ is hydrogen, alkyl, halo, nitro, cyano, hydroxy, alkoxy, carboxy, alkoxycarbonyl, acyl. thio, alkylsulfonyl, alkylsulfonamido, alkylsulfonamido, carbamoyl, thiocarbamoyl, mono or dialkylcarbamoyl, amino, mono- or dialkylamino, aryl, aryloxy, arylthio, heteroaryl, heteraryloxy, heteroarylthio, heterocyclyl, heterocyclyloxy, aralkyl, heteroaralkyl, or alkyl optionally substituted with one, two or three substituents selected from halo, hydroxy, carboxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, amino, or substituted amino:

R37 is hydrogen, alkyl, halo, nitro, cyano, hydroxy, alkoxy, alkoxycarbonyl, acyl, thio, alkylthio, amino, mono- or dialkylamino, aryl, aryloxy, arylthio, heteroaryl, heteraryloxy, heteroarylthio, heterocyclyl, heterocyclyloxy, aralkyl, heteroaralkyl, or alkyl optionally substituted with one, two or three substituents selected from halo, hydroxy, carboxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, amino, or substituted amino; and

R³⁸ is hydrogen, alkyl, halo, hydroxy, alkoxy, or a covalent bond attaching the ligand to a linker provided that at least one of R38 and R43 attaches a group of formula (c) to a linker;

R³⁹ is hydrogen, alkyl, halo, hydroxy, alkoxy, or substituted alkyl; and

a group of formula (d) or (e):

$$R^{46}$$
 R^{48} or R^{46} R^{48} R^{47} R^{47} (d) (e)

wherein:

R⁴⁶ is alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, or heterocycle; R⁴⁷ is alkyl, substituted alkyl, aryl, acyl, heterocycle, or -COOR⁵⁰ where R⁵⁰ is alkyl; or R^{46} and R^{47} together with the nitrogen atom to which they are attached form a heterocycle, which heterocycle is optionally substituted with one or more alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, alkoxy, substituted alkoxy, cycloalkyl,

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substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, acyl, acylamino, acyloxy, amino, substituted amino, aminoacyl, aminoacyloxy, oxyaminoacyl, azido, cyano, halogen, hydroxyl, keto, thioketo, carboxyl, carboxylalkyl, thioaryloxy, thioheteroaryloxy, thioheterocyclooxy, thiol, thioalkoxy, substituted thioalkoxy, aryl, aryloxy, heteroaryl, heteroaryloxy, heterocyclic, heterocyclooxy, hydroxyamino, alkoxyamino, nitro, -SO-alkyl, -SO-substituted alkyl, -SO-aryl, -SO-heteroaryl, -SO₂-alkyl, -SO₂-substituted alkyl, -SO₂-aryl or -SO₂-heteroaryl;

 R^{48} is a covalent bond that attaches [[the]] a group of formula (d) to a linker; and R^{49} is alkyl;

or a pharmaceutically acceptable salt; or prodrug thereof.

- 3. (Original) The compound of claim 1 or 2 wherein A is phenyl or pyridyl.
- 4. (Original) The compound of claim 1 or 2 wherein R¹ is hydrogen, methyl, or ethyl.
- 5. (Withdrawn) The compound of claim 1 or 2 wherein R² is pyrrolyl, pyridinyl, or imidazolyl.
- 6. (Original) The compound of claim 1 or 2 wherein R² is phenyl.
- 7. (Original) The compound of claim 1 or 2 wherein K is a bond or a methylene group.
- 8. (Original) The compound of claim 1 or 2 wherein K" is a bond.
- 9. (Original) The compound of claim 1 or 2 wherein R^x is alkyl, alkenyl, or alkynyl, each optionally substituted with 1 to 5 alkoxy or fluoro substituents.
- 10. (Original) The compound of claim 1 or 2 wherein R^x is (C_1-C_6) alkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, each optionally substituted with 1 to 3 methoxy, ethoxy or fluoro substituents.

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- 11. (Original) The compound of claim 1 or 2 wherein R^x is (C_1-C_6) alkyl optionally substituted with 1 to 3 methoxy, ethoxy, or fluoro substituents.
- 12. (Original) The compound of claim 1 wherein R* is methyl, ethyl, propyl, isopropyl, butyl, isobutyl or secbutyl, optionally substituted with methoxy or ethoxy or with 1 to 3 or fluoro substituents.
- 13. (Original) The compound of claim 1 wherein R^x is methyl, ethyl, methoxymethyl, ethoxymethyl, fluoromethyl, difluoromethyl trifluoromethyl, trifluoromethyl, formyl, or acetyl.
- 14. (Original) The compound of claim 1 or 2 wherein R^x is methyl, ethyl, methoxymethyl, fluoromethyl, difluoromethyl, or trifluoromethyl.
- 15. (Currently Amended) The compound of claim 1 or 2 wherein B is a heterocycloamino group which attaches a group of formula (a) to a linker.
- 16. (Currently Amended) The compound of claim 1 or 2 wherein B is pyrrolidine, piperidine, or hexahydroazepine attaching a group of formula (a) to a linker.
- 17. (Currently Amended) The compound of claim 1 or 2 wherein B is piperidine wherein the nitrogen atom of said piperidine attaches a group of formula (a) to a linker.
- 18. (Currently Amended) The compound of claim 1 or 2 wherein B is piperidin-3-yl or piperidin-4-yl wherein the nitrogen at the 1 position optionally attaches a group of formula (3) to a linker.
- 19. (Withdrawn) The compound of claim 1 wherein B taken together with R* is 4-methylpiperidine-1,4-diyl.

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- 20. (Withdrawn) The compound of claim 2 wherein L_2 is a group of formula (d) or (e).
- 21. (Withdrawn) The compound of claim 20 wherein: R^{46} is alkyl or substituted alkyl; R^{47} is alkyl, substituted alkyl, or heterocycle; or R^{46} and R^{47} together with the nitrogen atom to which they are attached form a heterocycle.
- 22. (Withdrawn) The compound of claim 1 or 2 wherein L₂ has any one of the formulas A1-A590 in Table 1.
- 23. (Withdrawn) The compound of claim 1 or 2 wherein L_1 is:

24. (Original) The compound of claim 23 wherein L₁ is:

- 25. (Original) The compound of claim 24 wherein the piperidino nitrogen of L_1 is bonded to X.
- 26. (Withdrawn) The compound of claim 1 or 2 wherein X is alkylene optionally substituted

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with one, two, or three hydroxy groups, alkylene wherein one, two, or three carbon atoms have been replaced by an oxygen atom, or an -alkylene-phenylene-alkylene- wherein the phenylene ring is optionally substituted with one or two chloro or fluoro groups.

27. (Cancelled)

- 28. (Withdrawn) The compound of claim 1 or 2 wherein X is an alkylene group having from 3 to 20 carbon atoms; wherein one or more carbon atoms in the alkylene group is optionally replaced with -O-; and wherein the chain is optionally substituted on carbon with one or more hydroxyl.
- 29. (Withdrawn) The compound of claim 1 or 2 wherein X is nonane-1,9-diyl, octane-1,8-diyl, propane-1,3-diyl, 2-hydroxypropane-1,3-diyl, or 5-oxa-nonane-1,9-diyl.
- 30. (Withdrawn) The compound of claim 1 or 2 wherein X has the following formula:

wherein the phenyl ring is optionally substituted with 1, 2, or 3 fluoro groups.

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31. (Withdrawn) The compound of claim 1 or 2 wherein X has one of the following formulas:

32. (Withdrawn) The compound of claim 2 which is a compound of Formula (Ia):

$$R^{2}$$
 R^{1}
 R^{1}
 R^{2}
 R^{46}
 R^{47}
(Ia)

or a pharmaceutically acceptable salt or prodrug thereof.

33. (Withdrawn) The compound of claim 1 or 2 wherein L_2 is a group of formula A234, A363, A364, A153, A28, A324, A329, A562, A87, or A239 in Table 1.

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34. (Withdrawn) The compound of claim 1 which is a compound of formula (III):

$$\begin{array}{c|c}
A & R^1 & H_3C \\
\hline
 & N & O \\
\hline
 & N-X-L_2
\end{array}$$
(III)

wherein R^2 , K", A, K, R^1 , X, and L_2 have the values defined in claim 1; or a pharmaceutically acceptable salt or prodrug thereof.

- 35. (Cancelled)
- 36. (Withdrawn) The compound of claim 34 wherein X is an alkylene group having from 3 to 20 carbon atoms; wherein one or more carbon atoms in the alkylene group is optionally replaced with -O-; and wherein the chain is optionally substituted on carbon with one or more hydroxyl.
- 37. (Withdrawn) The compound of claim 34 wherein X is nonane-1,9-diyl, octane-1,8-diyl, propane-1,3-diyl, 2-hydroxypropane-1,3-diyl, or 5-oxa-nonane-1,9-diyl.
- 38. (Withdrawn) The compound of claim 34 wherein X has the following formula:

wherein the phenyl ring is optionally substituted with 1, 2, or 3 fluoro groups.

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39. (Withdrawn) The compound of claim 34 wherein X has one of the following formulas:

- 40. (Withdrawn) The compound of claim 2 wherein L_2 is a group of formula (d) wherein R^{46} is a heterocycle, optionally substituted with 1 to 5 substituents independently selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkynyl, and substituted alkynyl; and R^{47} is alkyl, substituted alkyl, acyl, or -COOR⁵⁰.
- 41. (Withdrawn) The compound of claim 2 wherein L₂ is a group of formula (d) wherein R⁴⁶ is alkyl that is optionally substituted with from 1 to 5 substituents independently selected from the group consisting of alkoxy, substituted alkoxy, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, acyl, acylamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyaminoacyl, cyano, halogen, hydroxyl, keto, thioketo, carboxylalkyl, thioaryloxy, thioheteroaryloxy, thioheterocyclooxy, thiol, thioalkoxy, substituted thioalkoxy, heterocyclic, heterocyclooxy, hydroxyamino, alkoxyamino, and NR^aR^b, wherein R^a and R^b may be the same or different [and] and are chosen from hydrogen, alkyl, substituted alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, and heterocyclic.
- 42. (Withdrawn) The compound of claim 2 wherein L_2 is a group of formula (d) wherein R^{46} is 3-piperidinyl, 4-piperidinyl, or 3-pyrrolidinyl, which R^{46} is optionally substituted with 1 to 3 substituents independently selected from the group consisting of alkoxy, substituted alkoxy,

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cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, acyl, acylamino, acyloxy, amino, substituted amino, aminoacyl, aminoacyloxy, oxyaminoacyl, cyano, halogen, hydroxyl, keto, thioketo, carboxylalkyl, thioaryloxy, thioheteroaryloxy, thioheterocyclooxy, thiol, thioalkoxy, substituted thioalkoxy, heterocyclic, heterocyclooxy, hydroxyamino, alkoxyamino, alkyl, substituted alkyl, alkenyl, substituted alkynyl, and substituted alkynyl.

- 43. (Withdrawn) The compound of claim 2 wherein R⁴⁶ and R⁴⁷ together with the nitrogen atom to which they are attached form a piperidine or pyrrolidine ring which ring is optionally substituted with 1 to 3 substituents independently selected from the group consisting of alkoxy, substituted alkoxy, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, acyl, acylamino, acyloxy, amino, substituted amino, aminoacyl, aminoacyloxy, oxyaminoacyl, cyano, halogen, hydroxyl, keto, thioketo, carboxylalkyl, thioaryloxy, thioheteroaryloxy, thioheterocyclooxy, thiol, thioalkoxy, substituted thioalkoxy, heterocyclic, heterocyclooxy, hydroxyamino, alkoxyamino, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, and substituted alkynyl.
- 44. (Withdrawn) The compound of claim 2 wherein R⁴⁶ and R⁴⁷ together with the nitrogen atom to which they are attached form a heterocycle that is an aza-crown ether.
- 45. (Withdrawn) The compound of claim 44 wherein the aza-crown ether is 1-aza-12-crown-4, 1-aza-15-crown-5, or 1-aza-18-crown-6.
- 46. (Withdrawn) Compound number 1-146 as described in Table A and Table B herein; or a pharmaceutically acceptable salt or produce thereof.
- 47. (Original) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of claim 1 or 2.

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- 48. (Original) A method of treating a disease mediated by a muscarinic receptor in a mammal, comprising administering to said mammal a therapeutically effective amount of a compound of claim 1 or 2.
- 49. (Previously Presented) The method of claim 48 wherein the disease is urinary incontinence, chronic pulmonary obstructive disease, asthma, hyper salivation, a cognitive disorder, blurred vision, or irritable bowel syndrome.
- 50. (Previously Presented) A compound of formula L_1 -H wherein L_1 has the values defined in claim 1; or a salt thereof.
- 51. (Original) The compound of claim 50 which is a compound of formula (V):

or a salt thereof.

52. (Withdrawn) A compound of formula R_a -X- L_2 wherein X and L_2 have the values defined in claim 2; and R_a is a suitable leaving group.